UNITED STATES PATENT AND TRADEMARK OFFICE

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10/626,589	07/25/2003	Tsuneaki Kurumida	00862.023156.	9753

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EXAMINER
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ART UNIT	PAPER NUMBER
2625	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *11 July 2008*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *13-15,17-19 and 21-23* is/are pending in the application.

　　4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *13-15,17-19 and 21-23* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

　　Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

　　Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

　　a)☒ All b)☐ Some * c)☐ None of:

　　1.☒ Certified copies of the priority documents have been received.

　　2.☐ Certified copies of the priority documents have been received in Application No. _____.

　　3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

　　* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5)☐ Notice of Informal Patent Application
6)☐ Other: _____ .

DETAILED ACTION

Response to Arguments

1.   Applicant's arguments with respect to claims 13, 17 and 21 have been considered but are moot in view of the new ground(s) of rejection. Applicant's newly added limitation "by assigning characters to be downloaded into Unicode characters which can be converted into character codes belonging to..." requires a new search from the examiner, therefore has been made final.

Claim Rejections - 35 USC § 103

2.   The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3.   Claims 13-14, 17-18 and 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida et al. (US 5,361,332) in View of Oomura et al. (US 2003/0002063).

(1) regarding claims 13, 17 and 21:

Yoshida '332 discloses a font downloading apparatus (Fig. 2, work station), comprising:

a first obtainment unit (Fig. 2, a program in the work station for obtaining information), configured to obtain first code systems utilizable by a printer to which a font is to be downloaded (506 in Fig. 5 and column 11, lines 27-38);

a designation unit (Fig. 2, a program in the work station for specifying the font type), configured to designate a font (column 24, lines 21-22);

a second obtainment unit (Fig. 2, another work station program for obtaining information as shown in Fig. 1), configured to obtain a second code system of a font designated by said designation unit (column 11, lines 39-41, where another is being interpreted as a second unit);

a determination unit (a program in the work station for making decisions in Fig. 2 and 1), configured to determine whether or not the second code system is included in the first code systems (column 15, lines 9-16, where a determination as to whether or not the machines have the same font manager its being made);

a display unit (206 and 207 in Fig. 2) configured to display a selection window accepting a user selection of a code system from among the first code systems obtained by said first obtainment unit the when said determination unit determines that the second code system is not included in the first code systems (column 12, lines 3-51, where the retrieval table is shown for a selection to be make);

a first conversion unit (Fig. 2, a program in the workstation A for converting fonts), configured to, convert a data format of the font into a data format utilizable by the printer (Fig. 8A 802, 803, 815 and 816, where after the determination if it is matched the font data is converted to a format usable by the printer (816)) when said determination unit determines that the second code system is included in the first code systems (column 15, lines 9-16);

a second conversion unit (Fig. 2, a program in the workstation B for converting fonts), selected in the selection window (column 12, lines 3-51, where the retrieval table is shown for a selection to be make), and then convert a data format of the font into a data format utilizable by the printer (Fig. 8A 802, 804, 815 and 816, where after the determination if it is matched the font data is converted to a format usable by the printer (816)); and

a download unit (Fig. 2, a program in the work station for downloading information to the printer), configured to download to the printer the font of which the code system is converted by said first conversion unit or the font of which the code system and the data format are converted by said second conversion unit (column 21, lines 11-14).

Yoshida '332 discloses all the subject matter as described above except a font downloading apparatus for downloading a font to a printer capable of printing characters using a conversion table defining correspondence between Unicode and first code systems usable in the printer comprising: second conversion unit configured to convert a code system of the font designated by said designation unit by assigning characters to be downloaded into Unicode characters which can be converted into character codes belonging to the code system.

However, Oomura '063 teaches a font downloading apparatus for downloading a font to a printer capable of printing characters using a conversion table defining correspondence between Unicode and first code systems usable in the printer (Fig. 8 and paragraph [0269], lines 3-8) comprising: second conversion unit configured to

convert a code system of the font designated by said designation unit (paragraphs [0266]-[0271], where there is a conversion taking place with a font registered in the OS) by assigning characters to be downloaded into Unicode characters (paragraph [0266], where there is an assignment of a Unicode to the font) which can be converted into character codes belonging to the code system (paragraph [0269], where the character code is converted in the form of a DDI function).

Having a system of Yoshida '332 reference and then given the well-established teaching of Oomura '063 reference, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the font downloading apparatus of Yoshida '332 to include a font downloading apparatus for downloading a font to a printer capable of printing characters using a conversion table defining correspondence between Unicode and first code systems usable in the printer comprising: second conversion unit configured to convert a code system of the font designated by said designation unit by assigning characters to be downloaded into Unicode characters which can be converted into character codes belonging to the code system as taught by Oomura '063 because since Unicode cannot be used in the OS, the graphic engine looks up a glyph index table corresponding to the character font designated by Unicode and transfers, to the printer driver a glyph index corresponding to the designated character code (paragraph [0275]), with this the system performance is improved as well as increasing the modularity of the system.

(2) regarding claims 14, 18 and 22:

Yoshida '332 further discloses wherein said first obtainment unit obtains the first code system from the printer (506 in Fig. 5 and column 11, lines 27-38).

4.   Claims 15, 19 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida et al. (US Patent 5,361,332) and Oomura et al. (US 2003/0002063) in view of Ooishi et al. (US Patent 5,699,524).

Yoshida '332 further discloses wherein said first obtainment unit obtains the first code system (506 in Fig. 5 and column 11, lines 27-38).

Yoshida '332 and Oomura '063 disclose all the subject matter as described above except for obtaining the code system based on a model name of the printer.

However, Ooishi '524 teaches obtaining the code system based on a model name of the printer (column 1, lines 17-26 and column 7, lines 59-63).

Therefore it would have been obvious to one of o0rdinary skill in the art at the time the invention was made to obtain the code system based on a model name of the printer as taught by Ooishi '524 in the system of Yoshida '332 and Oomura '063. With this the information obtained from the devices, it is intended to be used uniformly with (column 1, lines 16-21), thus making the system versatility expand.

Conclusion

5.   Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LENNIN R. RODRIGUEZ whose telephone number is (571)270-1678. The examiner can normally be reached on Monday - Thursday 7:30am - 6:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on (571) 272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lennin R Rodriguez/
Examiner, Art Unit 2625

/Twyler L. Haskins/
Supervisory Patent Examiner, Art Unit 2625